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मानक

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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10482-3 (1983): Connectors for Printed Wiring Board,
Part 3: Socket, Card Insertion, Contact Spacing 3.962 mm,
Category A, Types 10482
IS-02-6/10/12/15/16/18/22-a/b-2-A/B/C-5/1-27 Or 2.54/0.4
[LITD 3: Electromechanical Components and Mechanical
Structures for Electronic Equipment]



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Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

(Reaffirmed 2002)

SPECIFICATION FOR CONNECTORS FOR PRINTED WIRING BOARD

PART 3 SOCKET, CARD INSERTION, CONTACT
SPACING 3·962 mm, CATEGORY A,
TYPES 10482 IS-02-6/10/12/15/16/18/22-a/b-2-A/B/C-5/1-27 Or 2·54/0·4

0. General — This standard shall be read in conjunction with IS : 10482 (Part 1) - 1983 ' Specification for connectors for printed wiring board: Part 1 Test schedule and requirements '.

1. Type Designation — See 4 of IS : 10482 (Part 1) - 1983.

1.1 The types of connectors covered in this standard are designated as given below:

- | | |
|------------------------------|--------------------------------|
| 1) 10482-02-6-a-2-A-5/1·27 | 36) 10482-02-18-b-2-C-5/1·27 |
| 2) 10482-02-6-a-2-B-5/1·27 | 37) 10482-02-22-a-2-A-5/1·27 |
| 3) 10482-02-6-a-2-C-5/1·27 | 38) 10482-02-22-a-2-B-5/1·27 |
| 4) 10482-02-6-b-2-A-5/1·27 | 39) 10482-02-22-a-2-C-5/1·27 |
| 5) 10482-02-6-b-2-B-5/1·27 | 40) 10482-02-22-b-2-A-5/1·27 |
| 6) 10482-02-6-b-2-C-5/1·27 | 41) 10482-02-22-b-2-B-5/1·27 |
| 7) 10482-02-10-a-2-A-5/1·27 | 42) 10482-02-22-b-2-C-5/1·27 |
| 8) 10482-02-10-a-2-B-5/1·27 | 43) 10482-02-6-a-2-A-2·54/0·4 |
| 9) 10482-02-10-a-2-C-5/1·27 | 44) 10482-02-6-a-2-B-2·54/0·4 |
| 10) 10482-02-10-b-2-A-5/1·27 | 45) 10482-02-6-a-2-C-2·54/0·4 |
| 11) 10482-02-10-b-2-B-5/1·27 | 46) 10482-02-6-b-2-A-2·54/0·4 |
| 12) 10482-02-10-b-2-C-5/1·27 | 47) 10482-02-6-b-2-B-2·54/0·4 |
| 13) 10482-02-12-a-2-A-5/1·27 | 48) 10482-02-6-b-2-C-2·54/0·4 |
| 14) 10482-02-12-a-2-B-5/1·27 | 49) 10482-02-10-a-2-A-2·54/0·4 |
| 15) 10482-02-12-a-2-C-5/1·27 | 50) 10482-02-10-a-2-B-2·54/0·4 |
| 16) 10482-02-12-b-2-A-5/1·27 | 51) 10482-02-10-a-2-C-2·54/0·4 |
| 17) 10482-02-12-b-2-B-5/1·27 | 52) 10482-02-10-b-2-A-2·54/0·4 |
| 18) 10482-02-12-b-2-C-5/1·27 | 53) 10482-02-10-b-2-B-2·54/0·4 |
| 19) 10482-02-15-a-2-A-5/1·27 | 54) 10482-02-10-b-2-C-2·54/0·4 |
| 20) 10482-02-15-a-2-B-5/1·27 | 55) 10482-02-12-a-2-A-2·54/0·4 |
| 21) 10482-02-15-a-2-C-5/1·27 | 56) 10482-02-12-a-2-B-2·54/0·4 |
| 22) 10482-02-15-b-2-A-5/1·27 | 57) 10482-02-12-a-2-C-2·54/0·4 |
| 23) 10482-02-15-b-2-B-5/1·27 | 58) 10482-02-12-b-2-A-2·54/0·4 |
| 24) 10482-02-15-b-2-C-5/1·27 | 59) 10482-02-12-b-2-B-2·54/0·4 |
| 25) 10482-02-16-a-2-A-5/1·27 | 60) 10482-02-12-b-2-C-2·54/0·4 |
| 26) 10482-02-16-a-2-B-5/1·27 | 61) 10482-02-15-a-2-A-2·54/0·4 |
| 27) 10482-02-16-a-2-C-5/1·27 | 62) 10482-02-15-a-2-B-2·54/0·4 |
| 28) 10482-02-16-b-2-A-5/1·27 | 63) 10482-02-15-a-2-C-2·54/0·4 |
| 29) 10482-02-16-b-2-B-5/1·27 | 64) 10482-02-15-b-2-A-2·54/0·4 |
| 30) 10482-02-16-b-2-C-5/1·27 | 65) 10482-02-15-b-2-B-2·54/0·4 |
| 31) 10482-02-18-a-2-A-5/1·27 | 66) 10482-02-15-b-2-C-2·54/0·4 |
| 32) 10482-02-18-a-2-B-5/1·27 | 67) 10482-02-16-a-2-A-2·54/0·4 |
| 33) 10482-02-18-a-2-C-5/1·27 | 68) 10482-02-16-a-2-B-2·54/0·4 |
| 34) 10482-02-18-b-2-A-5/1·27 | 69) 10482-02-16-a-2-C-2·54/0·4 |
| 35) 10482-02-18-b-2-B-5/1·27 | 70) 10482-02-16-b-2-A-2·54/0·4 |

Adopted 25 February 1983

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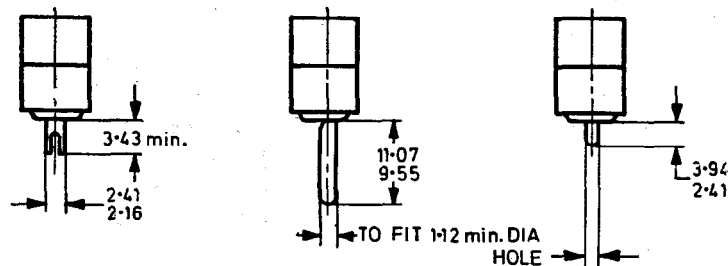
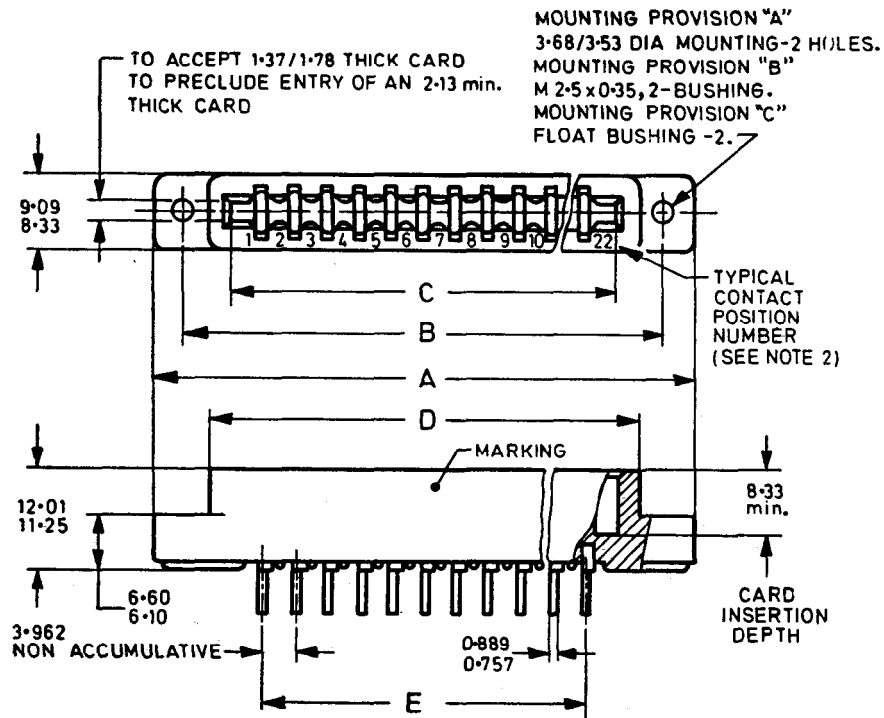
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INDIAN STANDARDS INSTITUTION
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- 71) 10482-02-16-b-2-B-2·54/0·4
- 72) 10482-02-16-b-2-C-2·54/0·4
- 73) 10482-02-18-a-2-A-2·54/0·4
- 74) 10482-02-18-a-2-B-2·54/0·4
- 75) 10482-02-18-a-2-C-2·54/0·4
- 76) 10482-02-18-b-2-A-2·54/0·4
- 77) 10482-02-18-b-2-B-2·54/0·4

- 78) 10482-02-18-b-2-C-2·54/0·4
- 79) 10482-02-22-a-2-A-2·54/0·4
- 80) 10482-02-22-a-2-B-2·54/0·4
- 81) 10482-02-22-a-2-C-2·54/0·4
- 82) 10482-02-22-b-2-A-2·54/0·4
- 83) 10482-02-22-b-2-B-2·54/0·4
- 84) 10482-02-22-b-2-C-2·54/0·4

2. Outline and Dimensions — The outline and dimensions shall be according to Fig. 1 and Table 1.



OPEN EYELET TERMINATION Category 'A1' Class 'a' PIN TERMINATION Category 'A1' Class 'b' PIN TERMINATION Category 'A2' Class 'b'

All dimensions in millimetres.

Note 1 — For dimensions see Table 1.

Note 2 — Contacts and numerals shall be designated on the connector using raised numerals in the location shown. The bottom designation shall correspond with the top designation in designating the same contact.

Note 3 — The shape of the barrier is optional except that the barrier shall not protrude beyond the plane of the underside of the mounting flange.

FIG. 1 OUTLINE DRAWING AND DIMENSIONS

TABLE 1 DIMENSIONS

(Clause 2)

Type of Connectors	Contact Spacing	A +0·9762	B +0·254	C		D ±0·254	E ±0·177
				Max	Min		
10482-02-6-a/b-2-A/B/C-5/1·27 or 2·54/0·4	3·962	44·96	38·89	28·02	27·76	31·47	19·84
10482-02-10-a/b-2-A/B/C-5/1·27 or 2·54/0·4	3·962	61·0	54·8	43·92	43·7	47·345	35·711
10482-02-12-a/b-2-A/B/C-5/1·27 or 2·54/0·4	3·962	68·8	62·7	51·8	51·6	55·3	43·633
10482-02-15-a/b-2-A/B/C-5/1·27 or 2·54/0·4	3·962	80·8	74·6	63·8	63·5	67·2	55·548
10482-02-16-a/b-2-A/B/C-5/1·27 or 2·54/0·4	3·962	85·5	78·5		67·5	71·3	59·5
10482-02-18-a/b-2-A/B/C-5/1·27 or 2·54/0·4	3·962	92·71	86·51	75·7	75·39	79·10	67·46
10482-02-22-a/b-2-A/B/C-5/1·27 or 2·54/0·4	3·962	108·7	102·7	91·7	91·3	94·97	83·335

3. Material Finish and Life Requirement — The material, finish and life requirement shall be as under depending upon the use of the connectors :

Characteristics	Professional	Commercial
a) Material	Glass filled DAP or Glass filled phenolic	General purpose phenolics
b) Contacts		
i) Male	Brass	Brass
ii) Female	Barilium copper or Phosphor bronze	Barilium copper or Phosphor bronze
c) Finish	1·27 micron gold over 5 micron nickel or copper	0·4 micron gold over 2·54 micron nickel or copper
d) Mechanical life	500 mating cycles	500 mating cycles

4. Climatic Category — The climatic category shall be applicable as given below depending upon the use of connectors :

Characteristics	Professional Grade	Consumer Grade
a) Temperature severity	— 65°/125°C	— 10/70°C
b) Damp heat severity	56 days	21 days
c) Low air pressure	4·4 kPa	Not applicable
d) Acceleration (steady state)	500 m/s ²	Not applicable
e) Vibration	10-2 500 Hz	10-55 Hz
f) Shock	1 km/s ²	Not applicable
g) Bump	4 000 Bumps at 40 g	1 000 Bumps at 40 g

5. Electrical Rating — The rated voltage shall be 600 volts ac (rms) for professional grade and 250 volts ac (rms) for consumer grade. The current shall be 5 amp, Max for both the grades.

6. Tests — See 8 of IS : 10482 (Part 1)-1983.

7. Requirements

7.1 The connectors shall comply with the following requirements :

<i>Characteristics</i>	<i>Requirements</i>	
	Professional Grade	Consumer Grade
a) Dimensions	See Fig. 1 and Table 1	
b) Insulation resistance		
i) Zero group	5 000 M ohms, <i>Min</i> at 500 V (dc)	500 M ohms, <i>Min</i> at 100 V (dc)
ii) For other groups	500 M ohms, <i>Min</i> at 500 V (dc)	50 M ohms at 100 V (dc)
c) Test current for contact resistance	5 Ampere	1 Ampere
d) Insertion and withdrawal force	Insertion and withdrawal force shall be checked by hand only	

8. Marking — See 7 of IS : 10482 (Part 1) - 1983.